# A.O.Smith *Residential Gas Water Heaters*

POWER HOUSE SURE SHOT®

## DIRECT-VENT

## SURE SHOT® FEATURES

### DIRECT-VENT DESIGN

**One-pipe, dual-channel closed-combustion system draws all make-up air from outside the home, eliminating problems caused by insufficient indoor ventilation.**

**Horizontal air intake and venting on most models up to 4 feet from outside wall, with no electrical power needed.**

**6-YEAR LIMITED TANK & PARTS WARRANTY**
For complete information, consult written warranty or A. O. Smith Water Products Company.

**A. O. SMITH DYNACLEAN™ DIFFUSER DIP TUBE**
Helps reduce lime and sediment buildup, maximizes hot water output. Made from long-lasting PEX cross-link polymer.

**COREGARD™ ANODE ROD**
An A. O. Smith exclusive. Aluminum anode with stainless steel core protects tank against corrosion longer than ordinary mild steel anodes.

Green Choice™
The Eco-Friendly Gas-Fired Burner

**GREEN CHOICE™ GAS BURNER**
Patented "eco-friendly" design reduces NOx emissions up to 33% and complies with Southern California and Texas requirements.

**DURABLE TAMPER-RESISTANT BRASS DRAIN VALVE**

**A. O. SMITH PERMAGLAS® GLASS COATING**
Protects steel tank from rust.

**FACTORY-INSTALLED TEMPERATURE & PRESSURE (T&P) RELIEF VALVE**

DESIGN CERTIFIED

**CODE COMPLIANCE: UBC, CEC, SBCC, CABO, HUD, BOCA NATIONAL CODES, ASHRAE/IES 90.1-1999 AND 2004 NAECA**

**DESIGN-CERTIFIED BY CSA INTERNATIONAL**
According to ANS Z21.10.1 standards governing storage-type water heaters.

A.O.Smith
Water Heaters

**www.hotwater.com**

October 2006

ARGSS02306

Downloaded from www.Manualslib.com manuals search engine

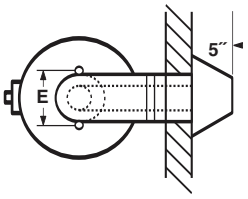
# RESIDENTIAL *Gas Water Heaters*

POWER HOUSE SURE SHOT®

## DIRECT-VENT

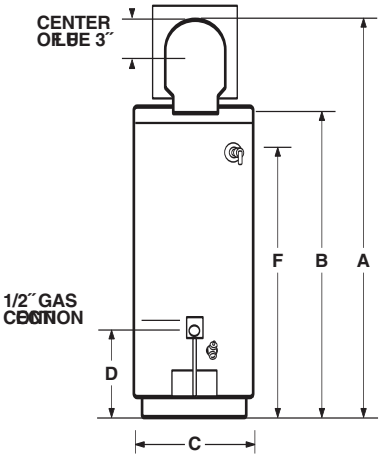
| MODEL NUMBER | FIRST HOUR RATING GALLONS | ENERGY FACTOR | GAL. CAP. | BTU INPUT PER HOUR NATURAL | RECOVERY 90°F RISE GALLONS PER HOUR | R VALUE** | DIMENSIONS IN INCHES | | | | | | VENT OUTLET* | APPROX. SHIPPING WEIGHT (LBS) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | A | B | C | D | E | F | | |
| GDVS-40 | 68 | .59 | 40 | 36,000 | 36 | 16 | 63-3/4 | 48-3/4 | 21 | 14-5/8 | 8 | 42 | 3 in 6 | 181 |
| GDVH-40 | 71 | .59 | 40 | 40,000 | 40 | 16 | 63-3/4 | 48-3/4 | 21 | 14-5/8 | 8 | 42 | 3 in 6 | 195 |
| GDVS-50 | 77 | .58 | 50 | 38,000 | 38 | 16 | 72-1/2 | 57-1/2 | 21 | 14-5/8 | 8 | 50-3/4 | 3 in 6 | 209 |
| GDVH-50 | 87 | .58 | 50 | 48,000 | 49 | 16 | 76 | 61 | 21 | 14-5/8 | 8 | 54-1/4 | 3 in 6 | 241 |
| GDVH-75 | 109 | .53 | 75 | 55,000 | 52 | 16 | 76-1/2 | 61-1/2 | 26-1/4 | 14-5/8 | 8 | 54-3/4 | 3 in 6 | 300 |

Recovery capacities based on actual performance tests.
Propane input on GDVH-50: 44,000. GDVH-75 not available in propane.
* Dual-channel system has 3˝ vent pipe inside 6˝ air intake pipe.
** R Value shown is "performance rated."




**Sure Shot® Direct-Vent Water Heaters** are shipped with Standard Vent Kit #9000687, which allows for horizontal vent extension (back of water heater to inside wall plus wall thickness) up to 10˝ on 40- and 50-gallon models, and up to 7-3/8˝ on the 75-gallon model. Standard Vent Kit #9000687 adds 15˝ to the total height of the installation (floor to top of vent pipe).

Optional Vent Extension Kits (#9001246, #9001247 and #9001248) can be ordered for use when longer horizontal vent extension or higher vertical vent extension are required, as shown in the chart below.




| VENT KIT NUMBER | HORIZONTAL VENT EXTENSION Back of heater to inside wall, plus wall thickness when used with these water heaters. | | | | VERTICAL VENT EXTENSION From floor to top of vent pipe when used with these water heaters. | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40- and 50-GALLON | | 75-GALLON | | GDVS-40 GDVH-40 | | GDVH-50 | | GDVS-50 | | GDVH-75 | |
| | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. | MIN. | MAX. |
| STANDARD: 9000687 | 3-1/2 | 10 | 7/8 | 7-3/8 | 63-3/4 | - | 76 | - | 72-1/2 | - | 76-1/2 | - |
| OPTIONAL: 9001246 | 10 | 15-1/2 | 7-3/8 | 12-7/8 | 72 | 77-1/2 | 84-1/4 | 89-3/4 | 80-3/4 | 86-1/4 | 86-1/4 | 91-1/4 |
| OPTIONAL: 9001247 | 15-1/2 | 26-1/2 | 12-7/8 | 23-7/8 | 77-1/2 | 88-1/2 | 89-3/4 | 100-3/4 | 86-1/4 | 97-1/4 | 91-1/4 | 102-1/4 |
| OPTIONAL: 9001248 | 26-1/2 | 48 | 23-7/8 | 45-3/8 | 88-1/2 | 110 | 100-3/4 | 122-1/4 | 97-1/4 | 118-3/4 | 102-1/4 | 124-1/4 |

If SMR "S99" is ordered, the vent kit will ship prior to the water heater. One of the vent kits below must be ordered at the same time as the heater.

| Complete Vent Kit | Includes Extension Kit | Termination Cap |
|---|---|---|
| 9003612 | 9000687 (Standard) | Aluminum |
| 9003613 | 9001246 | Aluminum |
| 9003614 | 9001247 | Aluminum |
| 9003615 | 9001248 | Aluminum |


A.O.Smith Water Heaters

**500 Tennessee Waltz Parkway**
**Ashland City, TN 37015**
**www.hotwater.com**


**For Technical Information and Automated Fax Service, call 800-527-1953.**
A. O. Smith Corporation reserves the right to make product changes or improvements without prior notice.


©2006 A. O. Smith Corporation


Printed in U.S.A.





Downloaded from www.Manualslib.com manuals search engine